

Name KEY

Date \_\_\_\_\_

### Graphing Planes

Graph the following planes in 3-space.

1.  $x + 2y + 3z = 6$

3.  $x = -4$

5.  $5x - 3y + 3z = 15$

7.  $-15x + 3y - 5z = -15$

2.  $3x + 2y = 6$

4.  $4x + 3y = 0$

6.  $-10x + 5y - 4z = 20$

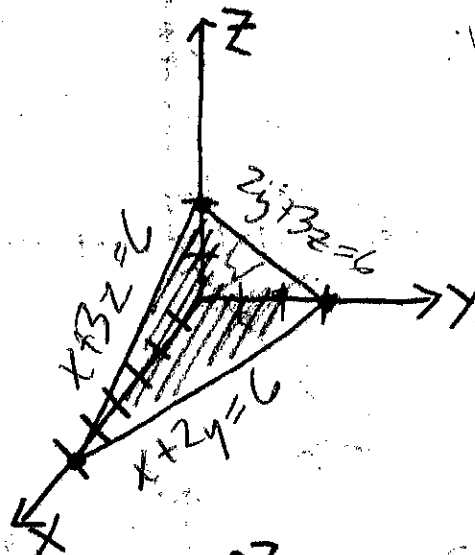
8.  $y = 5$

①  $x + 2y + 3z = 6$

$(\underline{6}, 0, 0)$

$(0, \underline{3}, 0)$

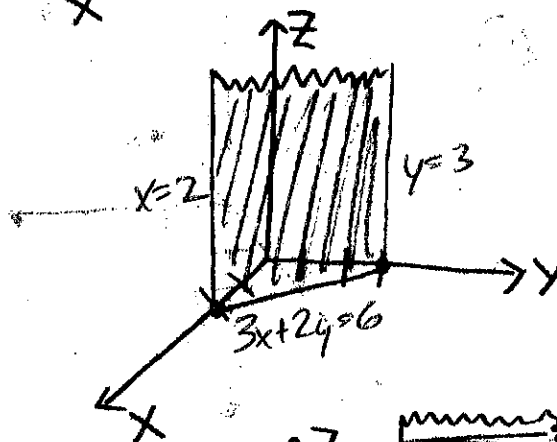
$(0, 0, \underline{2})$



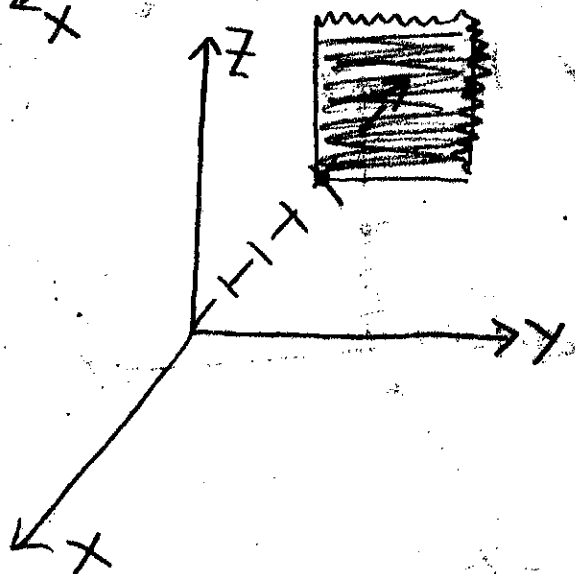
②  $3x + 2y = 6$

$(\underline{2}, 0, 0)$

$(0, \underline{3}, 0)$



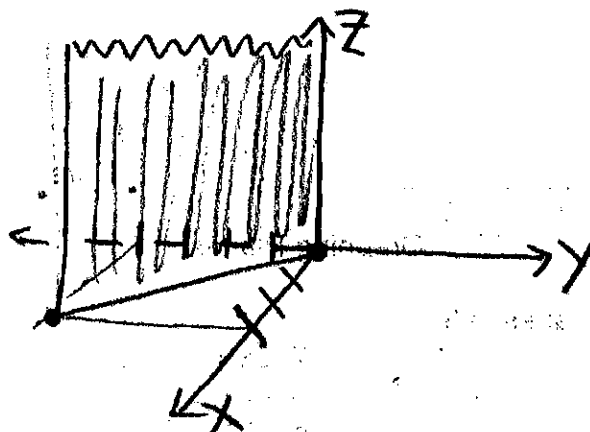
③  $x = -4$



④  $4x + 3y = 0$

$(0, 0, 0)$

$(3, -4, 0)$

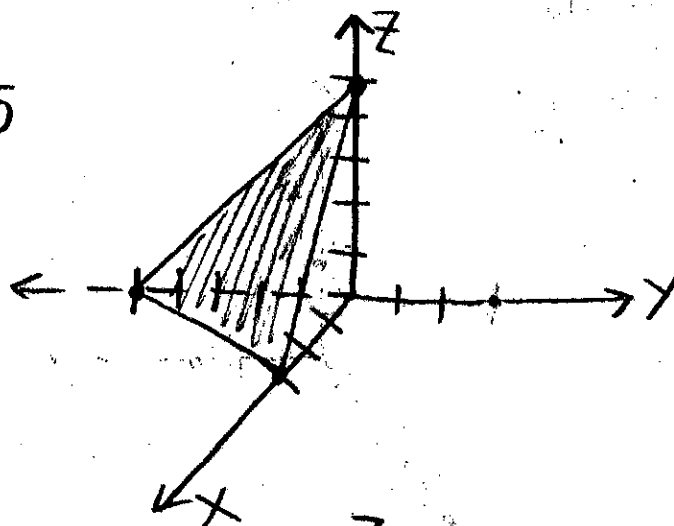


⑤  $5x - 3y + 3z = 15$

$(3, 0, 0)$

$(0, -5, 0)$

$(0, 0, 5)$

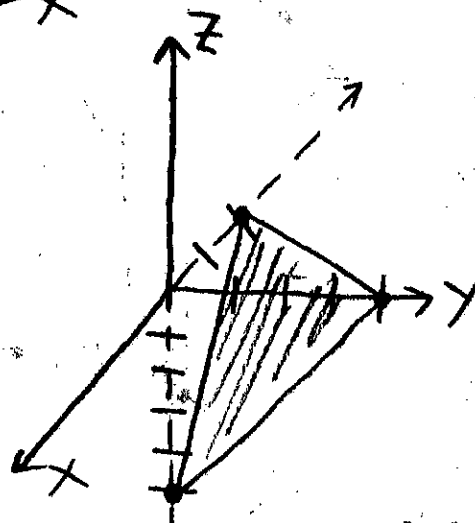


⑥  $-10x + 5y - 4z = 20$

$(-2, 0, 0)$

$(0, 4, 0)$

$(0, 0, -5)$

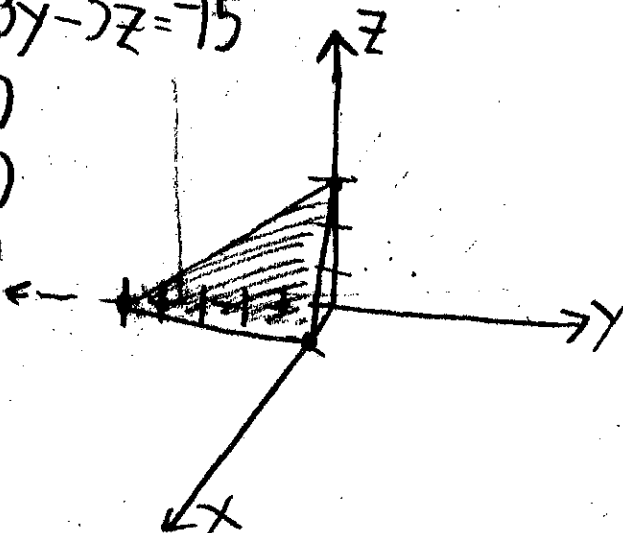


⑦  $-15x + 3y - 5z = -15$

$(1, 0, 0)$

$(0, -5, 0)$

$(0, 0, 3)$



⑧  $y = 5$

